



verifying rules UML models



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Impact analysis and change management of UML models

[PDF] from osu.edu

LC Briand, Y Labiche - 2003 - computer.org

... 2. **Verify** the consistency of changed diagrams. ... Since consistency in complex **UML models** is not always easy to achieve, **verifying** consistency must be supported by tools. ... changes are then used to perform impact analysis on the model using the impact analysis **rules** relevant to ...

Cited by 100 - Related articles - All 11 versions

Rule-based specification of behavioral consistency based on the UML meta-model

PDF from dsu.edu

G Engels, R Heckel... - «UML» 2001----The Unified Modeling 2001 - Springer

... Nevertheless, it is important to be able to specify consistency constraints and to **verify** them, eg, when certain ... the semantic domain should provide both a language for specifying constraints and analysis techniques for **verifying** them. ... 5. Verification of consistency constraints. ...

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Viatra-visual automated transformations for formal verification and validation of uml models

PDF for osu.edu

G Coertan, G Huszerl, I Maizik, Z Pao... - ... ASE 2002, 17th ... 2002 - ieeexplore.ieee.org

... Semantic correctness of transformations is being verified by projecting model transformation **rules** into the SAL intermediate language [1], which provides ... The formal verification of logic correctness of concurrent object-based systems designed in **UML** necessitates the ...

Cited by 115 - Related articles - All 14 versions

Automated verification of UMLsec models for security requirements

PDF from 099.edu

J. Jürjens... · © 2004 - The Unified Modelling Language, 2004 · Springer

... We use the Spin model checker since we found it suitable for verification of distributed communicating ... In particular, Spin's on-the-fly model checking allowing to partially **verify** a model without building the full state space seems suitable for **verifying** security requirements ...

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[PDF] Extending OCL for verifying UML models consistency

PDF from osu.edu

JP Bodeveix, T Millan, C Percebois, C Le Camus... - ... , Concepts and Tools - CiteSeer

... The verification of OCL constraints is in general not possible statically during the design and ...
Verifying that a model satisfies an OCL constraint becomes now decidable and this is ... the purpose
of the checking tool developed in NEPTUNE is twofold: • **verify** the wellformedness of ...

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Live and let die: LSC-based verification of UML-models

PDF from osu.edu

W Damm... - Formal Methods for Components and Objects, 2003 - Springer

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PDF from uni-oaderborn.de

R. Heckel, J. Küster... - Proc. AGT, 2002 - cs.uni-caderborn.de

... a partial mapping into this domain, and specify as well as **verify** consistency constraints on the graph transformation approaches for the precise definition of meta model **rules** and outline ... the sense that it must allow the formal specification and (automatic) verification of consistency constraints ...

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PDF from [psu.edu](http://www.psu.edu)

T Arons, J Hooman, H Kudler, A Pnueli... - © 2004-The Unified ..., 2004 - Springer

... In this paper we present an approach for the deductive verification of such systems using the PVS ... We apply our method by **verifying** two examples, demonstrating the feasibility of our approach on ... We define a notion of fairness for **UML** systems, allowing us to **verify** both safety ...

Cited by 18 - Related articles - Sci Direct - All 19 versions

PDF from ojs.edy

3 Berenbach - Software Engineering, 2004, ICSE 2004, ..., 2004 - ieeexplore.ieee.org

... the heuristics are programmatically verifiable, others require human cognition to **verify**. ... with DOORS", Fifth IEEE International Symposium on Requirements Engineering (RE ... Class **Models** as a Means for Validation and Verification of Requirements Specifications", Requirements ...

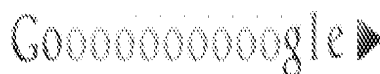
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PDF from osu.edu

WQ Liu, S Easterbrook... - ... on Consistency Problems in UML 2002 - Citeseer

... XML-based [4] first-order logic **rule** language in defining consistency **rules** and **verifying** consistency of ... In our approach, the **rules** may be arranged by priority, but no limitation on applicability is ... removal thread periodically makes a pass through the To-Do List, and **verifies** ...

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